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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,520	02/04/2004	Christiaan H.J. Koevoets	141682-1	2884
7590 04/13/2005			EXAMINER	
Henry H. Gibson			WOODWARD, ANA LUCRECIA	
GE Plastics				
One Plastics Avenue			ART UNIT	PAPER NUMBER
Pittsfield, MA 01201			1711	

DATE MAILED: 04/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/771,520	KOEVOETS, CHRISTIAAN				
Office Action Summary	Examiner	Art Unit				
	Ana L. Woodward	1711				
The MAILING DATE of this communication a Period for Reply	Marie					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	PLY IS SET TO EXPIRE MO J. 1.136(a). In no event, however, may a reply be ti eply within the statutory minimum of thirty (30) da In will apply and will expire SIX (6) MONTHS fror ute, cause the application to become ABANDONI	ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	iluland					
1) Responsive to communication(s) filed on						
2a) ☐ This action is FINAL . 2b) ☑ The	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allow	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>-43</u> is/are pending in the application.						
(*	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 43 is/are rejected.	6) Claim(s) 43 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. ↑						
Applicant may not request that any objection to the		· ´				
Replacement drawing sheet(s) including the corre	,	•				
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreig		a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Copies of the priority docume	• •					
 Copies of the certified copies of the pr application from the International Bure 	•	red in this National Stage				
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,	ed.				
		-				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar					
2) 🊺 Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) 🔯 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	Paper No(s)/Mail D Notice of Informal	Pate Patent Application (PTO-152)				
Paper No(s)/Mail Date 2/1//	6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 6,063,844 (Barren et al).

Barren et al disclose a composition comprising from 15 to 85 parts by weight of a branched polycarbonate, reading on the presently claimed polycarbonate, and from 15 to 85 parts by weight of a rubber modified graft copolymer that contains a discontinuous elastomeric phase dispersed in a continuous rigid thermoplastic phase, wherein at least a portion of the rigid thermoplastic phase is chemically grafted to the elastomeric phase, embracing the presently claimed rubber modified thermoplastic resin. Suitable polycarbonates include those derived from applicants' preferred dihydroxy aromatic hydrocarbons per claims 2-6. See, for example, the divalent radicals containing two aromatic rings joined by alkylidene linkages substituted by halo groups (column 3, lines 30-35), the divalent radicals according to formula (III), etc.

Preferably, the polycarbonates have weight average molecular weights of from about 10,000 to more than 200,000 (column 4, lines 26-29). The elastomeric phase can be derived from alkyl(meth)acrylate monomers, as required by claim 13, and from polyethylenically unsaturated monomers, as required by claim 16 (column 5, lines 53-57, column 6, lines 40-47, etc). The elastomeric phaseshave weight average particle sizes of 50 to 800 nm (column 7, lines 21-25).

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The amount of grafting that takes place between the rigid and elastomeric phases is from 10 to 90 weight percent (column 8, lines 13-20). In addition to vinyl aromatic and unsaturated nitrile monomers, the rigid phase can optionally contain alkyl (meth)acrylate monomers (column 7, lines 34-44, etc.). Stabilizers and other conventional additives are incorporated into the composition. With respect to applicants' embodiment requiring the presence of an additional thermoplastic resin, it is noted that the composition may contain SAN or additional polymers such as fluoropolymers (see examples).

In essence, the disclosure of the reference differs from the present claims in not expressly exemplifying a rubber modified graft copolymer wherein the rigid thermoplastic phase further contains units derived from (meth)acrylate monomers. In this regard, it is noted that the reference expressly teaches that the rigid phase can be derived from one or more monomers selected from alkyl (meth)acrylates, vinyl aromatics and unsaturated nitriles (column 7, lines 34-38). Accordingly, it would have been obvious to one having ordinary skill in the art to have used a rubber modified graft copolymer containing a rigid phase derived (meth)acrylate monomers in addition to the exemplified styrene and acrylonitrile monomers with the reasonable expectation of success since only its additive effect would have been expected. Absent evidence of unusual or unexpected results, no patentability can be seen in the presently claimed subject matter.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana L. Woodward whose telephone number is (571) 272-1082. The examiner can normally be reached on Monday-Friday (8:30-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-211-9197 (toll-free).

Ana L. Woodward

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